

CLAIMS

What is claimed is:

1. A method for differential dynamic content delivery, the method comprising:

5 providing a session document for a presentation, wherein the session document includes a session grammar and a session structured document;

selecting from the session structured document a classified structural element
in dependence upon user classifications of a user participant in the
10 presentation;

presenting the selected structural element to the user;

streaming speech to the user from one or more users participating in the
15 presentation;

converting the speech to text;

detecting a total sound level for the user; and
20 determining whether to display the text in dependence upon the total sound level for the user.
2. The method of claim 1 wherein the total sound level for the user includes ambient noise and the method includes detecting an ambient noise level for the user.
3. The method of claim 2 wherein detecting an ambient noise level for the user

further comprises temporarily interrupting the speech streaming to the user and measuring a sound level on the user's voice channel during the interruption and while the user is not speaking.

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4. The method of claim 2 wherein determining whether to display the text in dependence upon the total sound level for the user further comprises determining to display the text to the user if the ambient noise level is above a predetermined threshold.

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5. The method of claim 1 wherein:

the total sound level comprises the streaming speech plus ambient noise; and

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determining whether to display the text further comprises determining whether to display the text in dependence upon a ratio of the total sound level to the ambient noise level.

6. The method of claim 5 further comprising displaying the text if the ratio of the total sound level to the ambient noise level is less than a predetermined minimum.

7. The method of claim 1 wherein selecting a classified structural element further comprises selecting a classified structural element having an associated classification identifier that corresponds to the user classification.

8. The method of claim 1 further comprising creating a session document from a presentation document, including:

identifying a presentation document for a presentation, the presentation document including a presentation grammar and a structured document having structural elements classified with classification identifiers;

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identifying a user participant for the presentation, the user having a user profile comprising user classifications; and

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filtering the structured document in dependence upon the user classifications and the classification identifiers.

9. The method of claim 8 further comprising filtering the presentation grammar, in dependence upon the extracted structural elements, into a session grammar in the session document.

10. The method of claim 8 further comprising creating a presentation document, including:

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creating, in dependence upon an original document, a structured document comprising one or more structural elements;

classifying a structural element of the structured document according to a presentation attribute; and

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creating a presentation grammar for the structured document, wherein the presentation grammar for the structured document includes grammar elements each of which includes an identifier for at least one structural element of the structured document.

11. The method of claim 10 wherein classifying a structural element comprises:

identifying a presentation attribute for the structural element;

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identifying a classification identifier in dependence upon the presentation attribute; and

inserting the classification identifier in association with the structural element
in the structured document.

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12. The method of claim 10 wherein creating a presentation grammar for the
structured document comprises:

identifying the content type of the original document;

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selecting, in dependence upon the content type, a full presentation grammar
from among a multiplicity of full presentation grammars; and

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filtering the full presentation grammar into a presentation grammar for the
structured document in dependence upon the structural elements of the
structured document.

13. A system for differential dynamic content delivery, the system comprising:
- 5 means for providing a session document for a presentation, wherein the session document includes a session grammar and a session structured document;
- 10 means for selecting from the session structured document a classified structural element in dependence upon user classifications of a user participant in the presentation;
- means for presenting the selected structural element to the user;
- means for streaming speech to the user from one or more users participating in the presentation;
- 15 means for converting the speech to text;
- means for detecting a total sound level for the user; and
- 20 means for determining whether to display the text in dependence upon the total sound level for the user.
14. The system of claim 13 wherein the total sound level for the user includes ambient noise and the system includes means for detecting an ambient noise level for the user.
15. The system of claim 14 wherein means for detecting an ambient noise level for the user further comprises means for temporarily interrupting the speech streaming to the user and means for measuring a sound level on the user's voice channel during the interruption and while the user is not speaking.

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16. The system of claim 14 wherein means for determining whether to display the text in dependence upon the total sound level for the user further comprises means for determining to display the text to the user if the ambient noise level is above a predetermined threshold.

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17. The system of claim 13 wherein:

the total sound level comprises the streaming speech plus ambient noise; and

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means for determining whether to display the text further comprises means for determining whether to display the text in dependence upon a ratio of the total sound level to the ambient noise level.

18. The system of claim 17 further comprising means for displaying the text if the ratio of the total sound level to the ambient noise level is less than a predetermined minimum.

19. The system of claim 13 wherein means for selecting a classified structural element further comprises means for selecting a classified structural element having an associated classification identifier that corresponds to the user classification.

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20. The system of claim 13 further comprising means for creating a session document from a presentation document, including:

means for identifying a presentation document for a presentation, the

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presentation document including a presentation grammar and a structured document having structural elements classified with classification identifiers;

means for identifying a user participant for the presentation, the user having a

user profile comprising user classifications; and

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means for filtering the structured document in dependence upon the user classifications and the classification identifiers.

21. The system of claim 20 further comprising means for filtering the presentation grammar, in dependence upon the extracted structural elements, into a session grammar in the session document.

22. The system of claim 20 further comprising means for creating a presentation document, including:

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means for creating, in dependence upon an original document, a structured document comprising one or more structural elements;

means for classifying a structural element of the structured document according to a presentation attribute; and

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means for creating a presentation grammar for the structured document, wherein the presentation grammar for the structured document includes grammar elements each of which includes an identifier for at least one structural element of the structured document.

23. The system of claim 22 wherein means for classifying a structural element comprises:

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means for identifying a presentation attribute for the structural element;

means for identifying a classification identifier in dependence upon the presentation attribute; and

- 10 means for inserting the classification identifier in association with the structural element in the structured document.
24. The system of claim 22 wherein means for creating a presentation grammar for the structured document comprises:
- 5 means for identifying the content type of the original document;
- means for selecting, in dependence upon the content type, a full presentation grammar from among a multiplicity of full presentation grammars; and
- 10 means for filtering the full presentation grammar into a presentation grammar for the structured document in dependence upon the structural elements of the structured document.

25. A computer program product for differential dynamic content delivery, the computer program product comprising:

a recording medium

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means, recorded on the recording medium, for providing a session document for a presentation, wherein the session document includes a session grammar and a session structured document;

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means, recorded on the recording medium, for selecting from the session structured document a classified structural element in dependence upon user classifications of a user participant in the presentation;

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means, recorded on the recording medium, for presenting the selected structural element to the user;

means, recorded on the recording medium, for streaming speech to the user from one or more users participating in the presentation;

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means, recorded on the recording medium, for converting the speech to text;

means, recorded on the recording medium, for detecting a total sound level for the user; and

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means, recorded on the recording medium, for determining whether to display the text in dependence upon the total sound level for the user.

26. The computer program product of claim 25 wherein the total sound level for the user includes ambient noise and the computer program product includes means, recorded on the recording medium, for detecting an ambient noise

level for the user.

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27. The computer program product of claim 26 wherein means, recorded on the recording medium, for detecting an ambient noise level for the user further comprises means, recorded on the recording medium, for temporarily interrupting the speech streaming to the user and means, recorded on the recording medium, for measuring a sound level on the user's voice channel during the interruption and while the user is not speaking.

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28. The computer program product of claim 26 wherein means, recorded on the recording medium, for determining whether to display the text in dependence upon the total sound level for the user further comprises means, recorded on the recording medium, for determining to display the text to the user if the ambient noise level is above a predetermined threshold.

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29. The computer program product of claim 25 wherein:

the total sound level comprises the streaming speech plus ambient noise; and

5 means, recorded on the recording medium, for determining whether to display the text further comprises means, recorded on the recording medium, for determining whether to display the text in dependence upon a ratio of the total sound level to the ambient noise level.

30. The computer program product of claim 27 further comprising means, recorded on the recording medium, for displaying the text if the ratio of the total sound level to the ambient noise level is less than a predetermined minimum.

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31. The computer program product of claim 25 wherein means, recorded on the recording medium, for selecting a classified structural element further

comprises means, recorded on the recording medium, for selecting a
classified structural element having an associated classification identifier that
5 corresponds to the user classification.

32. The computer program product of claim 25 further comprising means,
recorded on the recording medium, for creating a session document from a
presentation document, including:

5 means, recorded on the recording medium, for identifying a presentation
document for a presentation, the presentation document including a
presentation grammar and a structured document having structural elements
classified with classification identifiers;

10 means, recorded on the recording medium, for identifying a user participant
for the presentation, the user having a user profile comprising user
classifications; and

means, recorded on the recording medium, for filtering the structured
15 document in dependence upon the user classifications and the classification
identifiers.

33. The computer program product of claim 32 further comprising means,
recorded on the recording medium, for filtering the presentation grammar, in
dependence upon the extracted structural elements, into a session grammar in
the session document.

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34. The computer program product of claim 32 further comprising means,
recorded on the recording medium, for creating a presentation document,
including:

5 means, recorded on the recording medium, for creating, in dependence upon

an original document, a structured document comprising one or more structural elements;

10 means, recorded on the recording medium, for classifying a structural element of the structured document according to a presentation attribute; and

15 means, recorded on the recording medium, for creating a presentation grammar for the structured document, wherein the presentation grammar for the structured document includes grammar elements each of which includes an identifier for at least one structural element of the structured document.

35. The computer program product of claim 34 wherein means, recorded on the recording medium, for classifying a structural element comprises:

5 means, recorded on the recording medium, for identifying a presentation attribute for the structural element;

means, recorded on the recording medium, for identifying a classification identifier in dependence upon the presentation attribute; and

10 means, recorded on the recording medium, for inserting the classification identifier in association with the structural element in the structured document.

15 36. The computer program product of claim 34 wherein means, recorded on the recording medium, for creating a presentation grammar for the structured document comprises:

20 means, recorded on the recording medium, for identifying the content type of the original document;

means, recorded on the recording medium, for selecting, in dependence upon the content type, a full presentation grammar from among a multiplicity of full presentation grammars; and

- 5 means, recorded on the recording medium, for filtering the full presentation grammar into a presentation grammar for the structured document in dependence upon the structural elements of the structured document.